PROJECT DESCRIPTION

I. GENERAL

This project involves the construction of a new traffic signal at the intersection of US 13 Business (N Salisbury Blvd) and Olive Street, removal of existing traffic signal at the intersection of US 13 Business and Baltimore Avenue, construction of pole and placement of video camera for vehicle detection on the west leg of Baltimore Avenue, and construction of Interconnect cable between Olive Street and Isabella Street in Wicomico County, Maryland,

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 6-phase, fully-actuated mode, with exclusive/permissive left turn phasing along US 13 Business (N Salisbury Blvd) and Olive Street/ Driveway Entrance approaches running concurrently. Audible Pedestrian Countdown Signal Heads and Pushbuttons shall be installed on the north side of the intersection across US 13 Business. Video detection shall be installed for vehicle detection as indicated in the signal plan. Fire pre-emption will be provided for this location using "Opticom" detector eyes on the northbound and southbound approaches. The contractor shall coordinate the installation of traffic conduit under the sidewalk with the proposed drainage improvements along US 13 Business.

- 1. For final pavement markings, refer to the pavement marking plans, as applicable: other than those detailed on the plan. All pavement markings shall be installed in accordance with Administartion standards.
- The contractor shall be responsible for terminating all signal cables to the appropriate terminals and proper labeling of each cable.
- All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in the appropriate 800 series Standard Plates. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- Disconnecting and splicing of interconnect cable shall be performed per Interconnect plan (Refer to Sheet pIC_P000_US13). The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The Contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- The pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60" X 60" level landing area with a cross slope of less than or equal to 2%.
- APS will function as follows:
- To cross N Salisbury Blvd
 - A. When pedestrian locates and presses the pushbutton for an extended time, the message will be "Wait to cross Salisbury at Olive, wait".
- B. When walk phase begins, the message will be a rapid tick which shall last for the duration of the walk phase.
- Location of APS pushbuttons must meet location requirements of MUTCD Section 4E.09 and Figure 4E.2. and the NCHRP publication "Accessible Pedestrian Signals: Guide to best practice". If not met, the contractor is to stop work on pushbutton locations until a design waiver is obtained and approved by the Director, Office of Traffic and Safety.

CONTACTS

DISTRICT	
DISILICI	

MR. DONNIE L. DREWER DISTRICT ENGINEER 410-677-4006

MR. KENNETH CIMINO ASSISTANT DISTRICT ENGINEER - TRAFFIC

MR. BRUCE POOLE ASSISTANT DISTRICT ENGINEER - UTILITIES

410-677-4040

410-677-4082 GREG HOLSEY

ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-677-4020

ASSISTANT DISTRICT ENGINEER - MAINTENANCE

WAYNE WEICHMAN

410-677-4010

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR. CHIEF. TRAFFIC OPERATIONS 410-787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS

410-787-7630 MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS

410-787-7650

410-787-7670 MR. MIKE STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)

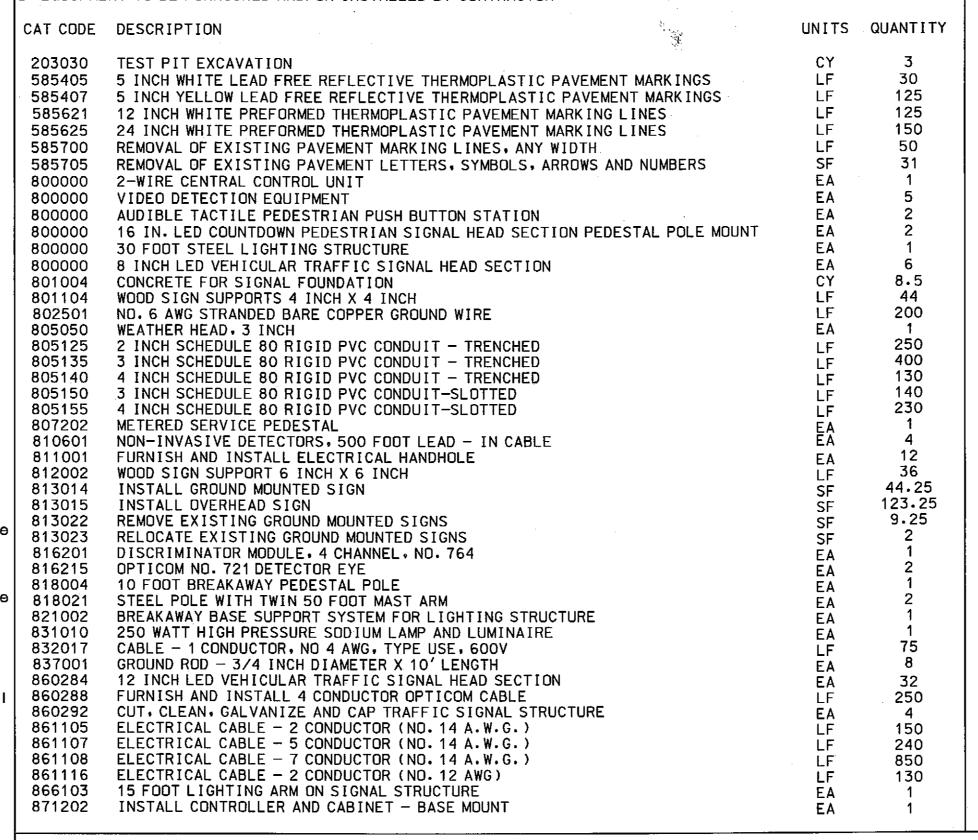
410-787-7668

EQUIPMENT LIST

A. EQUIP CATEGORY CODE NO.	MENT TO BE SUPPLIED BY THE STATE HIGHWAY ADMINISTRATION. DESCRIPTION	UNITS	QUANTITY
900000	BASE MOUNTED (SIZE 6) CABINET AND CONTROLLER (MSHA SPECIFICATION) WITH VIDEO DETECTION INTERFACE EQUIPMENT FOR 1-4 CAMERAS VIDEO DETECTION INTERFACE EQUIPMENT FOR 5-8 CAMERAS	EA EA	1
973023	SHEET ALUMINUM SIGNS CONSISTING OF:	SF	167.5
	R1-1 (30"x30") GROUND MOUNT R1-1 (30"x30") POLE MOUNT R3-5(L) (30"x36") MAST ARM MOUNT D-3(1) (VAR.X16") MAST ARM MOUNT R10-3(1) (9"x15") POLE MOUNT SIGN TO READ "PUSHBUTTON TO CROSS SALISBURY BLVD"	E A E A E A E A	1 1 2 4 2
	M1-5(6) (48"X75")- POLE MOUNT M1-5(6) (30"X51")- POLE MOUNT M1-5(6) (30"X51")- POLE MOUNT D3-1 (60"X12") GROUND MOUNT D95-25 (24"X24") GROUND MOUNT W3-3 (36"X36") GROUND MOUNT	EA EA EA EA	2 2 2 2 2

EQUIPMENT LIST (CONTINUED)

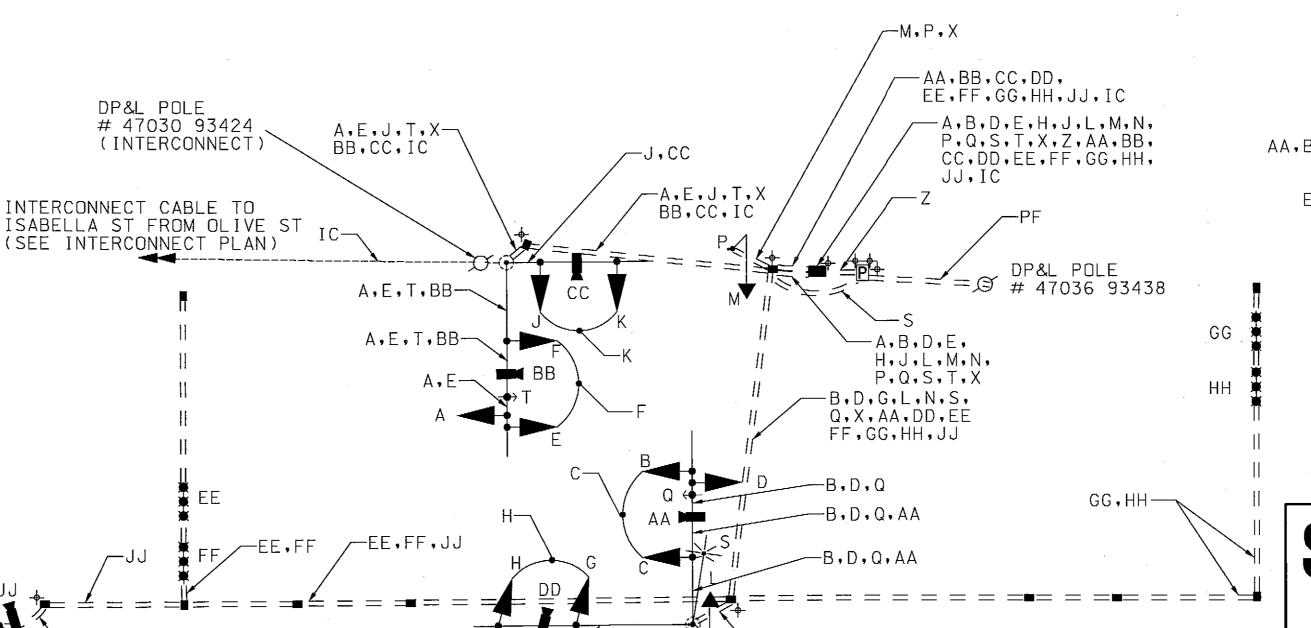
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR



PHASE CHART

2 3 4 5 6 7 8 9 10 11 12

PHASE 1 AND 5	← G⁄R	← G⁄R	R	← G⁄R	← G⁄R	R	R	R	R	R	DW	DW	│
1 AND 5 CHANGE TO 1 AN	D 6, 2	AND 5	, OR 2	AND	6								V
PHASE 1 AND 6	← G⁄G	+G⁄G	G	R	R	R	R	R	R	R	DW	DW	_ ▶
1 AND 6 CHANGE	+Y⁄G	+Y⁄G	G	R	R	R	R	R	R	R	DW	DW	
PHASE 2 AND 5	R	R	R	+G⁄G	+G⁄G	G	R	R	R	R	DW	DW	→
2 AND 5 CHANGE	R	R	R	4 -Y∕G	4-Y∕G	G	R	R	R	R	DW	DW	⊣ √
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	DW	DW	—
2 AND 6 CHANGE	Υ	Y	Υ	Υ	Υ	Υ	R	R	R	R	DW	DW	
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	DW	DW	
4 AND 8 CHANGE	R	R	R	R	R	R	Υ	Υ	Y	Υ	DW	DW	⊣ ₩
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	WK	WK	
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	FL⁄DW	FL⁄DW	
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Υ	Υ	Υ	Υ	DW	DW	▼
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	+



G,DD-

<u>KEY</u> 7 CONDUCTOR ELECTRICAL CABLE A,B,D,E,G,J (NO. 14 AWG)

CONDUCTOR ELECTRICAL CABLE

Q.T > 4 CONDUCTOR OPTICOM CABLE

2 CONDUCTOR ELECTRICAL CABLE (NC. 14 AWG)

AA,BB,CC,DD,JJ VIDEO DETECTION CABLE

NON-INVASIVE DETECTOR LEAD-IN CABLE

> 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE

> 1 CONDUCTOR (NO. 6 AWG) BARE STRANDED COPPER GROUND WIRE

POWER FEED (BY OTHERS)

3 WIRE 1 CONDUCTOR (NO. 4 AWG)

INTERCONNECT CABLE

🛨 GROUND ROD

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

US 13 BUSINESS (N SALISBURY BLVD) AT OLIVE STREET SALISBURY, MARYLAND

TRAFFIC	SIGNALIZA	TION	PLAN
SCALE NTS DATE	E SEPTEMBER 2010	CONTRACT	NO - WI3285274
DESIGNED BY	LOGN T.I.M.	/ILE S. NO	WICOMICO 23001306.02 G895
TS NO. 4748 DRAWING NO	D. pSG OF N00	1 SHEET	NO. OF

SABRA,WANG & ASSOCIATES, INC 1504 JOH AVENUE SUITE 160 BALTIMORE, MD 21227 WWW.SABRA-WANG.COM

-B,D,G,L,N,Q, S,X,AA,DD,